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(54) **EXHAUST GAS PURIFYING DEVICE AND EXHAUST GAS PURIFYING METHOD**

(57) Abstract:

PROBLEM TO BE SOLVED: To provide a catalyst for purifying an exhaust gas which safely functions in a lean atmosphere without the necessity to switch to a rich mode, in contrast with a catalyst used in a conventional exhaust gas purifying device designed to perform an oxidation reaction and a reduction reaction simultaneously so that NOx needs to be reduced by temporarily setting the operation in the rich mode when the operation is performed in the lean atmosphere.

SOLUTION: A catalyst A1 having a NOx absorbing substance and NOx reducing catalyst 4, a catalyst B2 having a hydrocarbon adsorbing substance and a hydrocarbon oxidizing catalyst 5 and an electrochemical catalyst containing a mixture 3 of an electron conductive substance C and an ion conductive substance D are borne on the inner face of a honeycomb. Further, piping for introducing an exhaust gas into a honeycomb and discharging it is laid. Next, electrons are migrated though the electron conductive substance C between a catalyst A and a catalyst B and at the same time, ions are migrated through the ion conductive substance D. Thus the absorbed NOx is reduced by an adsorbed hydrocarbon regardless of an exhaust gas atmosphere.

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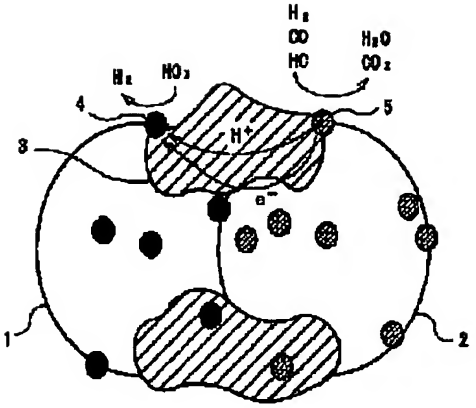

1：触媒A（$BaCO_3$含む）
2：触媒B（ゼオライト含む）
3：電子伝導性物質Cとイオン伝導性物質Dとの混合物
4：貴金属還元触媒粒子
6：貴金属酸化触媒粒子